

What is claimed is:

1. A consumer tote for a roll of wallpaper, the tote comprising:

a disposable exterior in which is formed a main access flap and a pair of core access openings;

5 the tote having an interior in which is located a disposable core which is aligned with the access openings;
both openings exposing a moulded coupling, one coupling attached to each end of the core, at least one of the
couplings being a driven coupling and adapted to engage a driving spindle that rotates the core.

2. The tote of claim 1, wherein:

10 there is formed a gap between the access flap and an adjacent edge of the exterior, when the flap is closed.

3. The tote of claim 1, wherein:

the exterior is formed from a non-metallic textile.

15 4. The tote of claim 1, wherein:

the core is supported at each end an inward facing hub which engages an interior of the core.

5. The tote of claim 4, wherein:

each hub surrounded by a bearing surface which locates the hub in a respective access opening.

20

6. The tote of claim 5, wherein:

the bearing surface makes contact with an inside bottom surface of the disposable exterior when the hub is
located in the openings.

25 7. The tote of claim 6, wherein:

the bearing surface is circular and connected to the hub by spokes.

8. The tote of claim 4, wherein:

at least one hub has an axial coupling feature for engaging a rotating winding spindle.

30

9. The tote of claim 8, wherein;
the coupling comprises a ring of teeth.

10. The tote of claim 1, further comprising:
5 a handle which folds flat against the exterior.

11. The tote of claim 10, wherein:
the handle is formed by two similar sub-units which fold from a flat position to a cooperating position in
which a handle opening in each sub-unit align to form a grip.

12. The tote of claim 11, wherein:
there is formed a gap between the access flap and an adjacent edge of the exterior, when the flap is closed;
and
each sub-unit has an edge which is affixed to the exterior, adjacent to the gap;
15 the sub-units arranged in a mirror image relationship about the gap.

13. The tote of claim 1, further comprising:
one of the access openings exposes a coupling formed on a hub which carries the core; and
a visible marker is located on the exterior for indicating the location of the coupling.

14. The tote of claim 1, wherein:
the exterior is dimensioned to fit between the loading spindles of a wallpaper printing machine.

15. The tote of claim 1, wherein:
25 the exterior further comprises a viewing window.

16. The tote of claim 1, wherein:
the exterior is adapted to hold about 50 meters of wallpaper wound onto a core.

30

17. The tote of claim 2, wherein:

the adjacent edge includes a return lip.

18. The tote of claim 17, wherein:

5 the return lip is folded from the exterior material.

19. The tote of claim 18, wherein:

the gap faces an exit slot of a printer when the tote is loaded for winding.

10 20. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path such that the media is printed by the printhead at a rate exceeding 0.02 square meters per second (775 square feet per hour).

15 21. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path such that the media is printed by the printhead at a rate exceeding 0.1 square meters per second (3875 square feet per hour).

20 22. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path such that the media is printed by the printhead at a rate exceeding 0.2 square meters per second (7750 square feet per hour).

25 23. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path and the printhead has more than 7680 nozzles.

24. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path and the printhead has more than 20,000 nozzles.

5

25. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path and the printhead has more than 100,000 nozzles.

10

26. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path and the printhead has more than 250,000 nozzles.

15

27. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path and the printhead prints ink drops with a volume of less than 5 picoliters.

20

28. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path and the printhead prints ink drops with a volume of less than 3 picoliters.

25

29. A consumer tote as claimed in claim 1 wherein a disposable core is adapted to be mounted in a winding area of a wallpaper printer cabinet, the cabinet defining a media path that extends from a media cartridge loading area to the winding area; a full width digital color printhead located in the media path and the printhead prints ink drops with a volume of less than 1.5 picoliters.

30

30. A consumer tote as claimed in claim 1 adapted for use with a self contained printer for producing rolls of wallpaper, the printer comprising:

a cabinet in which is located a media path which extends from a media cartridge loading area to a winding area adapted to receive the disposable core of the tote;

5 a full width digital color printhead located in the media path;

a processor which accepts operator inputs which are used to configure the printer for producing a particular roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer.

10 31. A consumer tote as claimed in claim 1 adapted for use with a self contained printer for producing wallpaper printed on media from a media cartridge, the media cartridge comprising:

a case in which a roll of blank media may be deployed;

the case having two halves, hinged together, an area between the two halves, when closed, defining a media supply slot; and

15 the case having internally and adjacent to the slot, a pair of rollers, at least one of the rollers being a driven roller which is supported at each end, by the case, for rotation by an external motor.

32. A consumer tote as claimed in claim 1, the tote further comprising:

a disposable exterior in which is formed a main access flap and a pair of core access openings; and

the tote having an interior in which is located a disposable core which is aligned with the access openings.

20

33. A consumer tote as claimed in claim 1 adapted for use with a self contained printer for producing wallpaper, the printer having a transverse cutter, comprising:

a chassis having end plates;

the end plates being separated to allow a web of media to pass between them;

25 the end plates supporting between them a cutting blade; and

the blade supported at each end to perform a cutting motion which begins on one side of the web and finishes on an opposite side of the web.

34. A consumer tote as claimed in claim 1 adapted for use with a self contained printer for producing

30 wallpaper, the printer having a slitting mechanism, the slitting mechanism comprising:

a chassis having end plates;

the end plates being separated by a transverse portion of the chassis to allow a web of media to pass between them;

one or more rotating slitting shafts extending between the end plates, each shaft having one or more slitters

5 arranged along its length, each slitter having a cutting edge; and

the slitting mechanism selectively engageable to either enter or not enter a path followed by the web according to an input provided by an operator of the printer.

35. A consumer tote as claimed in claim 1 adapted for use with a self contained printer for producing

10 wallpaper, the printer having a dryer, the dryer comprising:

a compartment with a top opening for receiving a media web fed from the printer;

a source of heated air located above the top opening for blowing heated air into the opening to dry printing on the media web.

15 36. A consumer tote as claimed in claim 1 adapted for use with a printer for producing rolls of wallpaper, the printer comprising:

a cabinet in which is located a media path which extends from a media loading area to a winding area;

a printhead located in the media path;

a processor which accepts operator inputs from one or more input devices which are used to configure the

20 printer for producing a particular roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer wherein,

the length and design of the roll are determined by the operator inputs.

25 37. A consumer tote as claimed in claim 1 adapted for use with a self contained printer for printing wallpaper onto a web of media via a method comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a winding area, there being a printhead located in the media path, a processor which accepts operator inputs from one or more input devices;

using one or more input devices which communicate with the processor to capture data from an operator regarding a specification for an operator's requirements;
 using the processor to operatively control the printer according to the data; and
 printing a single roll of wallpaper, on demand, according to a selected pattern.

5

38. A consumer tote as claimed in claim 1 adapted for use in a method for operating a wallpaper printing business, the method comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a printhead and from the printhead to a dispensing slot;

10 using one or more printer input devices which communicate with a processor to capture data regarding one or more customer's requirements;

the data comprising at least a customer selected pattern;

printing a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern; and
 charging a customer for the roll.

15

39. A consumer tote as claimed in claim 1 adapted for use in a method for operating a wallpaper printing franchise, the method comprising the steps of:

providing to franchisees, an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a printhead and from the printhead to a dispensing slot;

20 the printer having one or more printer input devices which communicate with a processor to capture data regarding one or more customer requirements, the data comprising at least a customer selected pattern;
 providing the franchisee with a collection of patterns in a digital storage medium that can be read by the printer;

enabling the franchisee to print a roll of wallpaper, onto a web of blank media, on demand, according to the

25 selected pattern; and

obtaining or attempting to obtain a fee from the franchisee.

40. A consumer tote as claimed in claim 1 adapted for use with a printer for producing rolls of wallpaper, comprising:

a frame in which is located a media path which extends from a media loading area to a winding area adapted to receive the disposable core of the tote;

a printhead located across the media path;

one or more input devices for capturing operator instructions;

- 5 a processor which accepts operator inputs which are used to configure the printer for producing a particular roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer.

41. A consumer tote as claimed in claim 1 adapted for use in a method for printing wallpaper onto a web of
10 media, comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path, there being a full width printhead located across the media path, there being a processor which accepts operator inputs from one or more input devices and which controls the printer;

- 15 using one or more input devices which communicate with the processor to capture data from an operator regarding a specification;

running the printer according to the data;

printing a single roll of wallpaper, on demand, according to a selected pattern and configuration;

changing the pattern according to a new datum from an operator; and

then printing a new roll onto the same web.

20

42. A consumer tote as claimed in claim 1 adapted for use in a method for drying a moving web of media in a printer such as a wallpaper printer, the method comprising the steps of:

loading the web in a path that traverses a compartment in a dryer within the printer, the compartment having an opening across the top;

- 25 allowing the moving web to descend into the compartment, as required; and

blowing heated air from above the opening.

43. A consumer tote as claimed in claim 1 adapted for use in a method of supplying a media web to a wallpaper printer, comprising the steps of:

- 30 opening a reusable case;

placing into the case a core onto which has been located a supply roll of blank wallpaper media;
 supporting the core for rotation within the case;
 leading a free edge of the roll between a pair of rollers and past an edge of the open case; then
 with the rollers located within the case and on either side of the web, closing the case and loading it into a
 5 printer.

44. A consumer tote as claimed in claim 1 adapted for use with a printhead assembly for a printer which prints
 onto a moving web that follows a path, comprising:
 a full width printhead located across the path;
 10 the printhead comprising a color printhead which is at least as wide as the web;
 the printhead being supplied with a number of different inks which are remote from the printhead and which
 supply the printhead through tubes.

45. A consumer tote as claimed in claim 1 adapted for use with a printer for producing rolls of wallpaper,
 15 comprising:
 a housing in which is located a media path which extends from a blank media intake to a wallpaper exit slot;
 a multi-color roll width removable printhead located in the housing and across the media path;
 the printhead being supplied by separate ink reservoirs, the reservoirs connected to the printhead by a an ink
 supply harness, there being a disconnect coupling between the reservoirs and the printhead;
 20 one or more input devices for capturing operator instructions;
 a processor which accepts operator inputs which are used to configure the printer for producing a particular
 roll.

46. A consumer tote as claimed in claim 1 adapted for use with a removable printhead assembly for a printer
 25 which prints onto a moving web, comprising:
 a full width stationary printhead located on a rail along which it slides for service and removal;
 a number of replaceable ink reservoirs which supply the printhead with different inks;
 the printhead comprising a color printhead which is at least as wide as the web; and
 the printhead being supplied with the different inks through tubes which can be disconnected so the printhead
 30 may be removed.

47. A consumer tote as claimed in claim 1 adapted for use with a self threading printer for producing rolls of wallpaper, comprising:

a media loading area adapted to support a media cartridge in a position so that a media supply slot of the

5 cartridge is closely adjacent to a pilot guide;

a cabinet housing a media path which extends from the pilot guide to a printed media dispensing slot;

a printhead located across the media path;

a processor which accepts operator inputs which are used to configure the printer for producing a particular roll;

10 a motor within the cabinet for advancing a media web out of the media cartridge; and

one or more other motors adapted to urge the media along the path and out of the slot.

48. A consumer tote as claimed in claim 1 adapted for use in a method for producing wallpaper on-demand, the method comprising the steps of:

15 utilizing an on-demand printer comprising a cabinet in which is located a media path which passes a printhead on the way to a dispensing slot;

selecting a pattern and a configuration;

using one or more printer input devices which communicate with a processor to input the pattern and the configuration; and

20 printing a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern and configuration.